

# Comparisons of Job Characteristics

**Focus Occupation:** [Bus and Truck Mechanics and Diesel Engine Specialists \(49-3031\)](#)

**Associated Occupation:** [Industrial Machinery Mechanics \(49-9041\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 84

**Focus Occupation:** [Bus and Truck Mechanics and Diesel Engine Specialists \(49-3031\)](#)

**Associated Occupation:** [Industrial Machinery Mechanics \(49-9041\)](#)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	20.1	21.1	0	Current knowledge level may be sufficient
Engineering and Technology	5.7	13.0	6.1	<<	Extensive education and/or training may be required
Design	5.2	11.5	5.4	<<	Extensive education and/or training may be required
Building and Construction	4.0	9.7	4.5	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 89

**Focus Occupation:** [Bus and Truck Mechanics and Diesel Engine Specialists \(49-3031\)](#)

**Associated Occupation:** [Industrial Machinery Mechanics \(49-9041\)](#)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Repairing	3.4	15.6	11.2	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	14.6	10.2	<<	Extensive development of skills in this area may be required
Operation Monitoring	6.6	14.2	10.0	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	13.6	11.0	<	A higher skill level may be required
Quality Control Analysis	5.9	12.3	9.4	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	11.6	9.7	<	A higher skill level may be required
Equipment Selection	3.3	9.8	7.5	<<	Extensive development of skills in this area may be required

Installation	1.7	6.4	2.2	<<	Extensive development of skills in this area may be required
Technology Design	2.6	5.2	2.5	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 88			
Focus Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031) Associated Occupation: Industrial Machinery Mechanics (49-9041)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Reaction Time	4.8	13.9	8.8	<<	Extensive improvement in abilities may be required
Control Precision	6.6	12.9	12.3	0	Current ability level may be sufficient
Manual Dexterity	6.5	12.6	11.9	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	12.1	11.4	0	Current ability level may be sufficient
Finger Dexterity	7.6	11.9	11.8	0	Current ability level may be sufficient
Multilimb Coordination	6.0	11.5	11.9	0	Current ability level may be sufficient
Auditory Attention	5.9	11.2	8.7	<	Some improvement in abilities may be required
Visual Color Discrimination	6.4	10.6	9.2	<	Some improvement in abilities may be required
Speed of Limb Movement	3.2	7.7	6.9	<	Some improvement in abilities may be required
Wrist-Finger Speed	3.2	7.3	5.6	<	Some improvement in abilities may be required
Sound Localization	2.2	6.5	5.9	<	Some improvement in abilities may be required
Glare Sensitivity	2.6	6.2	6.4	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 82
<b>Focus Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)</b> <b>Associated Occupation: Industrial Machinery Mechanics (49-9041)</b>		
Work Activities	Exclusivity of Activity	
Adhere to safety procedures	12	
Adjust or set mechanical controls or components	69	
Assemble, dismantle, or reassemble equipment or machinery	70	
Conduct tests to locate mechanical system malfunction	71	
Determine installation, service, or repair needed	58	

Diagnose mechanical problems in machinery or equipment	65
Fabricate, assemble, or disassemble manufactured products by hand	11
Identify base metals for welding	68
Inspect machinery or equipment to determine adjustments or repairs needed	42
Lubricate machinery, equipment, or parts	59
Maintain repair records	65
Maintain welding machines or equipment	70
Move or fit heavy objects	8
Operate hoist, winch, or hydraulic boom	34
Operate pneumatic test equipment	82
Perform safety inspections in industrial, manufacturing or repair setting	32
Read blueprints	10
Read schematics	34
Read technical drawings	7
Read work order, instructions, formulas, or processing charts	9
Repair or replace electrical wiring, circuits, fixtures, or equipment	49
Repair or replace malfunctioning or worn mechanical components	62
Set up and operate variety of machine tools	62
Test mechanical products or equipment	56
Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6
Use acetylene welding/cutting torch	54
Use combination welding procedures	68
Use electrical or electronic test devices or equipment	40
Use electronic calibration devices	68
Use hand or power tools	2
Use knowledge of metric system	39
Use knowledge of welding filler rod types	75
Use machine tools in installation, maintenance, or repair	72
Use pneumatic tools	66
Use precision measuring devices in mechanical repair work	61
Use soldering equipment	44
Weld together metal parts, components, or structures	54

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 86

**Focus Occupation: Bus and Truck Mechanics and Diesel Engine Specialists (49-3031)**  
**Associated Occupation: Industrial Machinery Mechanics (49-9041)**

Tools and Technologies	Exclusivity
Cleaning equipment	11
Computers	1
Content authoring and editing software	1

Cutting and crimping and punching tools	3
Data management and query software	1
Electrical measuring and testing equipment	7
Face and head protection	7
Fastener setting tools	12
Forming tools	2
Heating equipment and parts and accessories	19
Holding and clamping tools	3
Indicating and recording instruments	2
Industry specific software	1
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Machine tools	7
Machinery for working wood and stone and ceramic and the like	12
Measuring and layout tools	3
Mechanical instruments	14
Pneumatic tools	8
Power tools	2
Pressure measuring and control instruments	10
Prying and bending tools	10
Pumps	9
Rough and finishing tools	5
Sealing tools	21
Soldering and brazing and welding machinery and supplies	6
Tool attachments and accessories	12
Transportation related equipment and instruments	29
Vision protection and accessories	3
Wrenches and drivers	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.